

## **QUALITY ASSURANCE PROVISIONS**

### **C-321: SPECIFICATION**

NSN: 9G 1615 01-125-7102

NOMEN: LINER, MAIN GEARBOX

Articles to be furnished hereunder shall be manufactured, tested and inspected in accordance with drawing number (78286) 64351-11023-139 Rev."P" or latest revision, and all details and specifications referenced therein.

#### **I. Quality/Inspection Requirements**

- A. MIL-I-45208 applies:
- B. First Article Testing applies:
- C. Mandatory Inspection applies: Refer to contract section C.
- D. Production Lot Testing Applies

#### **II. Supplemental Requirements**

- A. Additionally, para. 3.1-3.5, 5.1-5.2, 6.1-6.2 of MIL-Q-9858 apply.
- B. The contractor shall identify on the process/operation sheets all manufacturing sources performing processes/operations outside of their facilities. These sheets shall not be revised or altered after the successful completion of First Article or Production Lot Testing without approval from the Engineering Support Activity (ESA), via the PCO.
- C. The Inspection Method Sheets which list the characteristics of each item produced under the contract shall have serial number traceability to the raw material, casting, or forging.
- D. Markings should be in accordance with MIL-STD-130 Rev. "H" paragraph 5.3.3(a), (b), (c), and (g). Method and location shall be in accordance with the drawing.

#### **III. Mandatory Inspection Requirements**

During production, mandatory inspection is required to be accomplished by the contractor, as follows:

##### **A. Level of Inspection (LOI):**

- 1) Critical Characteristics: 100% inspection shall apply.
- 2) Major and Minor Characteristics - LOI shall be in accordance with a sampling plan acceptable to the QAR.

B. Critical Characteristics:

**DRAWING 64351-11023-139 REV. "P"**

1) Zone E5

This surface is to be maintained perpendicular to datum F within .001

2) Zone D4

This dia. 2.952 / 2.957 is to be maintained concentric to datum F within .002 dia.

3) Zone C8 (data block)

Dia. A 3.192 / 3.193 is to be maintained round within .003

C. Major and Minor Characteristics:

- 1) Shall be defined by the contractor subject to QAR concurrence, unless defined on applicable drawings and associated specifications.

V. Unless expressly provided for elsewhere in this Clause, equipment such as fixtures, jigs, dies, patterns, templates, mylars, special tooling, test equipment, or any other manufacturing aid required for the manufacture and/or testing of the subject items will not be provided by the Government or any other source and is the sole responsibility of the Government or any other source and is the sole responsibility of the contractor. The foregoing applies notwithstanding any reference to such equipment or the furnishing thereof that may be contained in any drawing.

## **I-961      FIRST ARTICLE TESTS REQUIRED (Contractor Testing)**

### **I. First Article Inspection/Test Criteria**

The tests to be performed under the First Article approval clause of the contract are:

- A. 2 ea. Samples to be submitted for First Article Testing
- B. Dimensional Check: to ensure proper form
- C. Compliance with drawing, (78286) 64351-11023-139 Rev. "P", and specifications referenced therein.
- D. Review documentation as provided under DD 1423 requirements.

In addition to the above tests, the First Articles to be delivered hereunder shall also be subjected to those tests which will demonstrate that the articles comply with contract requirements. The contractor shall be responsible for providing necessary parts and repair of the First Article (s) during testing.

### **II. Testing Facility:**

- A. Testing shall be performed in-house by the DCMO/QAR, at the contractors facility.

III. Notification of Testing: The contractor shall notify the PCO, ACO, and QAR prior to conducting First Article Tests so the Government may witness such testing.

- A. The QAR shall be present to witness all First Article Tests .

IV. Test Report: The test report shall be in accordance with MIL-STD-831 and shall be submitted (2 copies) via the Cognizant CAO/QAR to the PCO. CAO/QAR shall provide comments on form DD 1222 (2copies) which shall be forwarded with the test report. Approval of the test report is the PCO's responsibility. Upon notification of approval/conditional approval, the ACO shall execute the DD 250 to indicate Government acceptance of the test report.

### **V. Disposition of First Article Sample (s):**

- A. Samples may be considered as production items under the contract provided the samples can be refurbished to ready for issue (RFI) condition and provided the samples have inspection approval of the cognizant QAR. Samples may be shipped as production items only after all other units required under the contract have been produced and are ready for shipment.

A. The contractor shall test 2 unit (s) of lot/item 0001 as specified in this contract. At least 15 calendar days before the beginning of First Article Testing, the contractor shall notify the contracting officer, in writing , of the time and location of the testing so the Government may witness the tests.

B. The contractor shall submit the First Article Test Report within 180 calendar days from the date of this contract to :

Naval Inventory Control Point- Philadelphia  
Attn: John Lambert Code 0734  
700 Robbins Ave. Bldg.2C  
Philadelphia, PA 19111

Marked "FIRST ARTICLE TEST REPORT: Contract No. #: lot/itemNo. ".

Within 60 calendar days after the government receives the test report, the contracting officer shall notify the contractor, in writing of the conditional approval, approval, disapproval of the First Article. The notice of the conditional approval or approval shall not relieve the contractor from complying with all requirements of the specifications and all other terms and conditions of this contract. A notice of conditional approval shall state any further action required of the contractor. A notice of disapproval shall cite reasons for disapproval.

C. If the First Article is disapproved, the contractor, upon Government request, shall submit an additional First Article for testing. After each request, the contractor shall make any necessary changes, modification, or repairs to the First Article or select another First Article for testing. All costs related to these tests are to be borne by the contractor, including any and all costs for additional tests following a disapproval. The contractor shall furnish any additional First Article to the Government under the terms and conditions and within the time specified by the Government. The Government shall act of this First Article within the time limit specified in paragraph B above. The Government reserves the right to require an equitable adjustment of the contract price for any extension of the delivery schedule or for any additional costs to the Government related to these tests.

D. If the contractor fails to deliver any First Article on time, or the contracting officer disapproves any First Article, the contractor shall be deemed to have failed to make delivery within the meaning of the default clause of this contract.

E. Unless otherwise provided in the contract, and if the approved First Article is not consumed or destroyed in testing, the contractor may deliver the approved First Article as part of the contract quantity if it meets all contract requirements for acceptance.

F. If the Government does not act within the time specified in paragraph B or C above, the contracting officer shall, upon timely written request from the contractor, equitably adjust under the changes clause of this contract the delivery or performance dates and/or the contract price, and any other contractual term affected by the delay.

G. Before First Article approval, the acquisition of materials or components for, or the commencement of production of, the balance of the contract quantity is at the sole risk of the contractor. Before First Article approval, the costs thereof shall not be allocable to this contract for 1) progress payments, or 2) termination settlements if the contract is terminated for the convenience of the Government.

H. The contractor shall produce both the First Article and the production quantity at the same facility and shall submit a certification to this effect with each First Article.

## C-330 PRODUCTION LOT TESTING REQUIREMENTS

[CONTRACTOR]

NSN: 9G 1615 01-125-7102

P/N: (78286) 64351-11023-139

NOMEN: LINER, MAIN GEARBOX

The material produced under contract shall be accepted by the cognizant CAO/QAR upon the successful completion of these requirements.

### I. Production Lot Test Requirements

A. The cognizant CAO/QAR shall select two (2) item (s) at random from the production lot. In addition the QAR shall select one (1) item (s) at random from each successive lot or portion thereof.

B. Production Lot Testing to be completed during production after First Article Approval.

C. Sample (s) are to be unpainted. Corrosive areas to be coated with a light preservative.

II. The tests to be performed under the Production Lot Sample testing provisions of the contract are:

A. Compliance with drawing **(78286) 64351-11023-139 REV "P"** or latest revision and all specification referenced therein.

B. Dimensional Check

In addition to the above tests, the Production Lot Sample(s) to be delivered hereunder shall also be subjected to those tests which will demonstrate that the sample(s) comply with contract requirements.

### III. Testing location:

A. All testing will be accomplished at the contractors facility.

Within fifteen (15) days of completion of Production Lot Testing the CAO/QAR shall prepare and submit two (2) copies of their test report with conclusions and recommendations to the Contracting Officer.

### IV. NOTIFICATION OF TESTING:

The contractor shall notify the PCO, ACO, and QAR prior to conducting Production Lot Tests so the Government may witness such testing.

A. the QAR shall be present to witness all Production Lot Testing.

### V. Shipment and Distribution of Samples

A. Sample(s) may be considered as production items under the contract provided sample(s) can be refurbished to ready For Issue (RFI) condition and provided sample(s) have inspection approval of the cognizant DCMAO. Sample(s) may be shipped as production items

only after all other units required under the contract have been produced and are ready for shipment.

**C331 PRODUCTION LOT SAMPLE TESTING [ CONTRACTOR TESTING ]**

A. The Production Lot Samples shall be selected at random by the cognizant government QAR. The samples shall be identified by contract number, lot number, and be clearly marked as follows: PRODUCTION LOT TEST SAMPLES

NOT R.F.I. MATERIAL

DO NOT TAKE UP IN STOCK

B. Such samples shall be tested in sufficient time prior to the delivery of the production articles to allow a 45 day period for testing and written notification by the contracting officer of the approval or disapproval of the samples. within 15 days of the receipt of the samples, the CAO shall notify the contracting officer, *Defense Supply Center Richmond code:* of the results of the testing, together with the recommendation for approval or disapproval.

C. In the event the contractor does not receive written notification of approval or disapproval of the samples for a particular lot within 60 days from their submission for such testing, the contract delivery schedule shall be equitably adjusted as necessary.

D. If the contractor fails to deliver any Production Lot Samples for testing within the time or times specified, or if the contracting officer disapproves any Production Lot Samples, the contractor shall be deemed to have failed to make delivery within the meaning of the default clause of this contract, and this contract shall be subject to termination for default.

E. In order for a Production Lot to be acceptable, all samples representative of the lot must pass all the contract requirements. In the event a sample fails to pass such requirements, the lot will be rejected. In such event, the government may, at its option and at no additional cost to the government, (I) terminate all or any portion of this contract for default, (II) require the manufacture of a new Production Lot, or a rework of the rejected Production Lot if the means and procedures by the contractor for rework are acceptable to the government, or (III) require the submission of additional samples for test. The foregoing procedures shall apply to new or reworked Production Lots in the same way as they did to the original Production Lot.

F. For each additional sample or each resubmission of a modified sample which the contractor is required to submit for approval hereunder as a result of a failure of a previous sample to conform to the requirements of the specification, the contractor shall pay to the government the costs of reinspection, examination and retesting and the contractor and his sureties (if any) shall be liable for the amount of such costs.

G. Nothing contained in the foregoing provisions of this clause. and no action of the government in accordance herewith, shall in any way prejudice the right of the government under the clause of this contract entitled Default.



# CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

FORM APPROVED  
OMB NO. 0704-0188

PUBLIC REPORTING BURDEN FOR THIS COLLECTION OF INFORMATION IS ESTIMATED TO AVERAGE 440 HOURS PER RESPONSE, INCLUDING THE TIME FOR REVIEWING INSTRUCTIONS, SEARCHING EXISTING DATA SOURCES, GATHERING AND MAINTAINING THE DATA NEEDED AND COMPLETING AND REVIEWING THE COLLECTION OF INFORMATION. SEND COMMENTS REGARDING THIS BURDEN ESTIMATE OR ANY OTHER ASPECT OF THIS COLLECTION OF INFORMATION, INCLUDING SUGGESTIONS FOR REDUCING THIS BURDEN TO DEPT. OF DEFENSE, WASHINGTON HEADQUARTERS SERVICES, DIRECTORATE FOR INFORMATION OPERATIONS AND REPORTS, 1215 JEFFERSON DAVIS HWY., SUITE 1204, ARLINGTON, VA. 22202-4302, AND TO THE OFFICE OF MANAGEMENT AND BUDJET, PAPERWORK REDUCTION PROJECT (0704-0188), WASH. DC 20503. PLEASE DO NOT RETURN YOUR FORM TO EITHER OF THESE ADDRESSES. SEND COMPLETED FORM TO THE GOVERNMENT ISSUING CONTRACTING OFFICER FOR THE CONTRACT / PR NO. LISTED IN BLOCK E.

<b>A. CONTRACT LINE ITEM NO.</b>		<b>B. EXHIBIT</b>		<b>C. CATEGORY:</b> TDP      TM      OTHER							
<b>D. SYSTEM/ITEM</b> 9G 1615 01-125-7102			<b>E. CONTRACT/ PR. NO.</b>		<b>F. CONTRACTOR</b>						
<b>1. DATA ITEM NO.</b> 1	<b>2. TITLE OF DATA ITEM</b> CERTIFICATION DATA REPORT			<b>3. SUBTITLE</b> COMPLETE PROCESS OF SHEETS							
<b>4. AUTHORITY (Data acquisition document No.)</b> DI-MISC-80678/T1		<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> DEFENSE SUPPLY CENTER RICHMOND							
<b>7. DD 250 REQ</b> LT	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> AS REQ	<b>12. DATE OF FIRST SUBMISSION</b> SEE BLOCK #16		<b>14. DISTRIBUTION</b>						
<b>8. APP CODE</b> A		<b>11. AS OF DATE</b> AS REQ	<b>13. DATE OF SUBSEQUENT SUBMISSION</b> SEE BLOCK #15		<table border="1"> <tr> <th colspan="2">b. COPIES</th> </tr> <tr> <th>Draft</th> <th>Final</th> </tr> <tr> <td></td> <td>Reg    Repro</td> </tr> </table>		b. COPIES		Draft	Final	
b. COPIES											
Draft	Final										
	Reg    Repro										
<b>16. REMARKS</b> PARA. 10.1, 10.2, 10.2.1, 10.2.2, 10.2.4, 10.2.5 SHALL APPLY * UPON SUBMISSION OF FIRST ARTICLE/ PRODUCTION LOT TEST SAMPLE (s) ** IF PROCESS OPERATION SHEETS CHANGE AFTER SUCCESSFUL COMPLETION OF FAT/ PLT.				DCMC / ACO		*	1/0				
				DCMC / QAR		**	1/0				
				PCO			1/0				
				<b>15. TOTAL</b>			3/0				
<b>1. DATA ITEM NO.</b> 2	<b>2. TITLE OF DATA ITEM</b> CERTIFICATION DATA REPORT			<b>3. SUBTITLE</b> COMPLETE INSPECTION METHOD SHEETS							
<b>4. AUTHORITY (Data acquisition document No.)</b> DI-MISC-80678/T2		<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> DEFENSE SUPPLY CENTER COLUMBUS							
<b>7. DD 250 REQ</b> LT	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY</b> AS REQ	<b>12. DATE OF FIRST SUBMISSION</b> SEE BLOCK #16		<b>14. DISTRIBUTION</b>						
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Draft	Final										
	Reg    Repro										
<b>16. REMARKS</b> PARA. 10.1, 10.2, 10.2.1, 10.2.2, 10.2.4, 10.5 SHALL APPLY * UPON SUBMISSION OF FIRST ARTICLE / PRODUCTION LOT TEST SAMPLE (s) ** AT TIME OF CONTRACT COMPLETION.				DCMC / ACO		*	1/0				
				DCMC / QAR		**	1/0				
				PCO			1/0				
				<b>15. TOTAL</b>							
<b>G. PREPARED BY</b> John D. Leighty		<b>H. DATE</b>		<b>I. APPROVED BY</b> John D. Leighty		<b>J. DATE</b>					

**CONTRACT DATA REQUIREMENTS LIST**  
(2 Data Items)FORM APPROVED  
OMB NO. 0704-0188

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<b>A. CONTRACT LINE ITEM NO.</b>		<b>B. EXHIBIT</b>		<b>C. CATEGORY:</b> TDP          TM          OTHER				
<b>D. SYSTEM/ITEM</b> 9G 1615 01-125-7102			<b>E. CONTRACT/ PR. NO.</b>		<b>F. CONTRACTOR</b>			
<b>1. DATA ITEM NO.</b> 3	<b>2. TITLE OF DATA ITEM</b> REQUEST FOR WAIVER				<b>3. SUBTITLE</b>			
<b>4. AUTHORITY (Data acquisition document No.)</b> DI-CMAN-80640B			<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> DEFENSE SUPPLY CENTER RICHMOND			
<b>7. DD 250 REQ LT</b>	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY AS REQ</b>	<b>12. DATE OF FIRST SUBMISSION</b>		<b>14. DISTRIBUTION</b>			
<b>8. APP CODE</b>		<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>		<b>a. ADDRESSEE</b>	<b>b. COPIES</b>		
						<b>Draft</b>	<b>Final</b>	
						<b>Reg</b>	<b>Repro</b>	
<b>16. REMARKS</b>					DCMC / ACO		1/0	
					DCMC / QAR		1/0	
					PCO		1/0	
					<b>15. TOTAL</b>		3/0	
<b>1. DATA ITEM NO.</b> 4	<b>2. TITLE OF DATA ITEM</b> REQUEST FOR DEVIATION				<b>3. SUBTITLE</b>			
<b>4. AUTHORITY (Data acquisition document No.)</b> DI-CMAN-80641B			<b>5. CONTRACT REFERENCE</b>		<b>6. REQUIRING OFFICE</b> DEFENSE SUPPLY CENTER COLUMBUS			
<b>7. DD 250 REQ LT</b>	<b>9. DIST STATEMENT REQUIRED</b>	<b>10. FREQUENCY AS REQ</b>	<b>12. DATE OF FIRST SUBMISSION</b>		<b>14. DISTRIBUTION</b>			
<b>8. APP CODE</b>		<b>11. AS OF DATE</b>	<b>13. DATE OF SUBSEQUENT SUBMISSION</b>		<b>a. ADDRESSEE</b>	<b>b. COPIES</b>		
						<b>Draft</b>	<b>Final</b>	
						<b>Reg</b>	<b>Repro</b>	
<b>16. REMARKS</b>					DCMC / ACO		1/0	
					DCMC / QAR		1/0	
					PCO		1/0	
					<b>15. TOTAL</b>		3/0	
<b>G. PREPARED BY</b> John D. Leighty			<b>H. DATE</b>	<b>I. APPROVED BY</b> John D. Leighty			<b>J. DATE</b>	

<b>CONTRACT DATA REQUIREMENTS LIST</b> <i>(1 Data Item)</i>					Form Approved OMB No. 0704-0188				
Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government Issuing Contracting Officer of the Contract/PR No. listed in Block E.									
A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY:  TOP _____ TM _____ OTHER _____					
D. SYSTEM/ITEM 9G 1615 01-125-7102			E. CONTRACT/PR		F. CONTRACTOR				
1. DATA ITEM		2. TITLE OF DATA ITEM 5 CERTIFICATION DATA / REPORTS			3. SUBTITLE				
4. AUTHORITY (Data Acquisition) DI-MISC-80678/T3			5. CONTRACT REFERENCE		6. REQUIRING OFFICE DEFENSE SUPPLY CENTER RICHMOND				
7. DD 250 REQ LT		9. DIST  STATEMENT REQUIRED		10. FREQUENCY AS REQ		12. DATE OF FIRST SUBMISSION SEE BLOCK 16*			
8. APP CODE A		11. AS OF DATE AS REQ		13. DATE IF SUBSEQUENT SEE BLOCK 16*		14. DISTRIBUTION			
PARA. 10.1,10.2,10.2.1,10.2.2,10.2.4,10.5 APPLY  BLOCK#12 -UPON SUBMITTAL OF FIRST ARTICLE SAMPLE (S) AND/OR PRODUCTION LOT SAMPLE.  BLOCK #3-SEPERATE REPORTS SHALL BE PROVIDED FOR THE BELOW LISTED SUB TITLES. CERTIFICATION REPORTS FOR PRIME PROCESS AND MATERIAL SPECIFICATIONS SHALL INCLUDE CERTIFICATION THAT ALL VENDORS PREFORMING THESE PROCESSES ARE PRIME (OEM) (78286) Sikorsky Afct. APPROVED SOURCES.  BLOCK #5 - CONTRACT REFERENCE: P/N: (78286) 64351-11023-132 rev."P" Material: Timken Tube 4320 or 8620 (alternate material AMS 6371-4130 stl., ASTM A534-8620 stl. tube. Mag Particle Insp. per SS8805 After rough machineing heat treat to 125,000 PSI min UTS rockwell C26-33 per Mil-H-6875. black oxide CL I per Mil-C-13924				a. ADDRESSEE		b. COPIES			
								Draft      Final Reg      Repro	
				DCMC / ACO		1/0			
				DCMC / QAR		*	1/0		
				PCO		**	1/0		
						3/0			
G. PREPARED BY  John D. Leighty			H. DATE		I. APPROVED BY  John D. Leighty		J. DATE		

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE